AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An apparatus, comprising:

an actuator;

a sensor coupled to the actuator, the sensor to detect a physical state of a substance as it is within the actuator; and

a thermoelectric module coupled to the actuator, the module to encourage the substance within the actuator to change physical state therein.

2. (Original) The apparatus of claim 1, further comprising:
a start up circuit coupled to the actuator, sensor and module, the start up circuit, actuator, sensor and module forming an automatic feedback system.

3. (Currently Amended) The apparatus of claim 1, wherein the actuator is one of a fluid pump ~~and~~ or a compressor.

4. (Original) The apparatus of claim 1, wherein the sensor is one of a resistance temperature detector, a thermistor, an infrared sensor, a gas sensor and a thermocouple.

5. (Original) The apparatus of claim 1, wherein the thermoelectric module comprises:
one of a thermoelectric cooler and a heater.

6. (Currently Amended) A method, comprising:

(a) determining a presence of a threshold amount of ~~one of~~ a fluid ~~and a vapor in an actuator~~that is within a pump or a compressor; and

(b) ~~one of~~ condensing vapor ~~and evaporating liquid~~ of the fluid as it is present in the ~~actuator~~pump or evaporating liquid of the fluid as it is present in the compressor.

7. (Currently Amended) The method of claim 6, wherein determining comprises:

checking a sensor coupled to the ~~actuator~~pump or compressor.

8. (Currently Amended) The method of claim 6, wherein evaporating comprises:

heating liquid to a boiling point~~, the heat generated by a heater coupled to the actuator~~ by a thermoelectric heater.

9. (Currently Amended) The method of claim 6, wherein condensing comprises:

cooling vapor within a liquid pump to a condensation point~~, wherein vapor heat is absorbed by a thermoelectric module coupled to the actuator~~ by a thermoelectric cooler.

10. (Currently Amended) The method of claim 6, further comprising:

(c) repeating (a) and (b) until there is no longer a threshold amount of ~~one of~~ the fluid ~~and the vapor~~ in the ~~actuator~~ pump or compressor.

11. (Currently Amended) The method of claim 10, further comprising:

(d) after (c), applying power to the ~~actuator~~ pump or compressor.

12. (Currently Amended) The method of claim 11, further comprising:

(e) applying power to a heat source coupled to the ~~actuator~~ pump or compressor.

13. (Currently Amended) A system, comprising:

~~an actuator~~a fluid pump or a fluid compressor;

a sensor coupled to the ~~actuator~~pump or compressor, the sensor to detect a physical state of ~~a substance~~ a fluid as it is within the ~~actuator~~pump or compressor;

a thermoelectric ~~module~~ cooler or heater coupled to the ~~actuator~~pump or compressor, the ~~module~~ cooler or heater to ~~encourage~~ cause the ~~substance~~ fluid as it is within the ~~actuator~~ pump or compressor to change ~~physical state~~between a vapor and a liquid state; and

a heat source in a computer, the heat source coupled to the ~~actuator~~pump or compressor, the heat source to be cooled by the operation of the ~~actuator~~pump or compressor.

14. (Canceled)

15. (Currently Amended) The system of claim ~~14~~13, wherein the pump is ~~oriented at a location independent of the gravitationally low point~~ located above a lowest gravitational point of the system.

16. (Currently Amended) The system of claim ~~14~~13, wherein the compressor is ~~oriented at a location independent of the gravitationally high point~~ located below a highest gravitational point of the system.

17. (Original) The system of claim 13, wherein the sensor is one of a resistance temperature detector, a thermistor, an infrared sensor, a gas sensor and a thermocouple.

18. (Canceled)

19. (Currently Amended) The system of claim 13, further comprising:
a cold plate coupled to the heat source.

20. (Currently Amended) The system of claim 13, further comprising:
a heat exchanger coupled to the ~~actuator~~pump or compressor.

21. (Currently Amended) The system of claim 13, further comprising:
a start up circuit coupled to the ~~actuator~~pump or compressor, sensor and ~~module~~the cooler or heater, the start up circuit, ~~actuator~~pump or compressor, sensor and ~~module~~ the cooler or heater forming an automatic feedback system.

22. (Currently Amended) The system of claim 13, further comprising:
an integrated circuit package containing a die in which the ~~actuator~~pump or compressor, sensor, and thermoelectric ~~module~~ cooler or heater ~~and heat source~~ are built.

23 (New) The apparatus of claim 1, wherein the thermoelectric module is functional when the actuator is not operating.

24 (New) The system of claim 13, wherein the thermoelectric cooler or heater is functional when the pump or the compressor is not operating.